

two chain urokinase (tc-uPA).

82. (new) A process according to Claim 81 wherein said eukaryotic cell line is selected from CHO and CHO-Messi.

83. (new) A process according to Claim 81 wherein said cell culture medium is serum-free.

84. (new) A process according to Claim 81 wherein the concentration of said alkanolic acids is from 0.1 to 20 mM.

85. (new) A process according to Claim 81 wherein after said alkanolic acids are added, the cell line is grown at a temperature from 30°C to 37°C.

D² 86. (new) A process according to Claim ~~85~~ wherein said temperature is from 33°C to 35°C.

87. (new) A process according to Claim ~~85~~ wherein said cell line is grown for a time of 48 to 200 hours.

88. (new) A process according to Claim ~~81~~ further comprising a step of recovery of said cell culture medium.

89. (new) A process according to Claim 88 wherein the production level of tc-uPA in said cell culture medium is at least 4000 IU/ml.

90. (new) A process according to Claim ~~88~~ wherein, said culture medium is acidified with a weak acid to a pH from 5.0 to 5.8, and optionally a non-ionic detergent is added and the culture medium is then filtered.

91. (new) A process for purifying recombinant High Molecular Weight (HMW) tc-uPA and Low Molecular Weight (LMW) catalytically active tc-uPA from the cell culture medium produced according to Claim 88 consisting in a chromatography of said culture medium onto a cation-exchanger column at pH from 5.5 to 6.5.

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92. (new) A process according to Claim 91 wherein LMW tc-uPA is released from the cationic exchanger by addition of a buffer solution with pH from 5.5 to 6.5, said solution further comprising a monovalent cation in concentration from 200 mM to 300 mM and wherein the HMW tc-uPA is released by addition of a buffer solution with pH from 6 to 7.5, said solution further comprising a monovalent cation in concentration of at least 400 mM and optionally further purifying LMW and HMW tc-uPA by benzamidine chromatography.

Kindly cancel Claims 69-80.